



Institutional Cleaners and Solvents

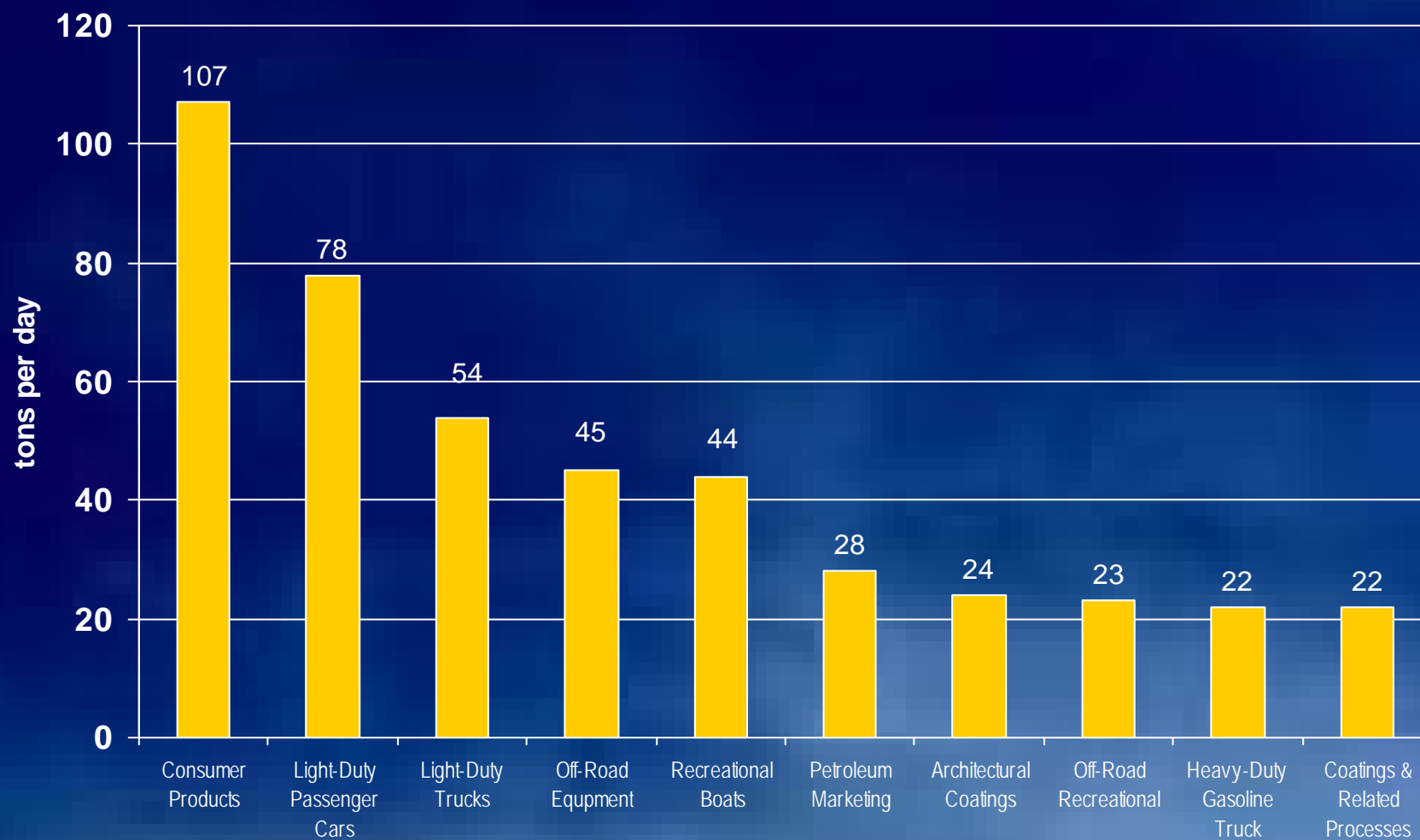
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South Coast Air Quality
Management District

July 9, 2008



VOC Annual Average Emissions 2014



Consumer Products

- Used by households and institutions
- Institutions are schools, office buildings, libraries, etc.
- Product types Include:
 - Cleaners
 - Detergents
 - Floor care products
 - Lawn & garden products
 - Personal care products
 - Sanitizers and disinfectants



Environmentally Preferable Purchasing



- Local, State and Federal initiatives/programs to encourage EPP
- Includes many types of purchases
 - Paper
 - Office machines
 - Vehicles
 - Institutional cleaners and solvents



Retailers Respond

- Numerous “green” products marketed
 - Some are “greenwash”, confusing purchasers
- Third party organizations develop independent certification programs
 - Green Seal
 - EcoLogo
 - U.S. EPA Design for the Environment (DfE) Formulator Program
- Standards developed to establish environmental attributes



Cost and Performance

- Tested products with local cities, major school district, office buildings
- Comparable prices
- Adequate performance with only minor increase in labor
 - Floor Wax alternatives have issues
- Nearly invisible transition for most uses



Users of Environmentally Preferred Institutional Cleaners and Solvents

Government Buildings

- City of Pasadena
- City of Richmond
- City of San Francisco
- City of San Jose
- City of Santa Monica
- Santa Clara County

Schools

- LAUSD
- State of New York
- State of Illinois
- State of Maine
- City of Boston

Hotels

- Disney's Grand California
- Doubletree (selected locations)
- Fairmont (selected locations)
- Hilton (selected locations)
- Kimpton
- Marriot (selected locations)
- Teneya Lodge Yosemite

Private Buildings

- AM/PM Stores (selected locations)
- Whole Foods Stores
- Kaiser Permanente Buildings

SCAQMD's

**Clean Air Cleaners
Certification Program**


Clean Air Choices Cleaner Certification Program

- Adopted April 2007
- Modeled after Clean Air Solvent Certification Program
 - 73 participating companies and over 140 certified products
- <http://www.aqmd.gov/rules/cacc/index.html>



Objective



- Voluntary participation
 - Certify ultra-low VOC janitorial cleaning products
 - Recognize availability
 - Encourage marketing and use
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- Reduce VOC emissions and reduce human health and environmental impacts
 - Certified products at <http://www.aqmd.gov/rules/cacc/CACCcertlist.pdf>

Program Criteria

■ Certification Route

- VOC Content 10 g/l or less
 - No exemption for low vapor pressure (LVP) solvents or fragrance
- Prohibits the following (Less than 0.1%):
 - Prop. 65 listed
 - Carcinogens and reproductive toxins
 - Heavy metals
 - Others



■ Alternative Certification Route

- Require 3rd party certification from reputable organization
 - Green Seal, U.S. EPA Design for Environment, EcoLogo
- Must meet 10 g/l VOC content



Clean Air Choices Cleaners Certificate

XYZ Manufacturing, LLC.
Product : Super Klean

The South Coast Air Quality Management District hereby certifies the
above product as a **Clean Air Choices Cleaner.**



South Coast Air Quality Management District

April 1, 2007

Date Issued

April 1, 2010

Expiration Date


Barry R. Wallerstein, D.Env.
Executive Officer

Clean Choices, Clean Air

List of Certified Products

Natural Solutions

- Auto Dish Detergent
- Concession Counter Cleaner
- Dishwashing Liquid
- General Liquid Sanitizer
- Glass Cleaner
- Lemon Disinfectant
- Liquid Alive Bacteria
- Liquid Laundry Whitener
- Multi-purpose Cleaner and Degreaser
- Neutral Cleaner
- Powdered Auto Dish Detergent
- Powdered Laundry Detergent
- Auto Dish Rinse



Natural Solutions (Cont.)

- Creamy Cleanser
- Liquid Laundry Detergent
- Liquid Laundry Softener
- Toilet & Urinal Cleaner
- Liquid Hand Soap
- Hair and Body Shampoo
- Automobile Soap

Products Submitted for Certification (In Testing)

NCH Corporation

- Cast Out

Federal and State Consumer Product Regulations

- Current federal limits based on 1993 CARB limits
 - Considering Ozone Transport Commission (OTC) Model Rule based on 2006 CARB limits
- CARB consumer product regulation
 - Leading the way nationally and internationally
 - 127 individual product category limits
 - But many common products have no limits
 - Dish soap
 - Hand soap
 - Paint and Lacquer Thinners

Conclusions

- Consumer products are a large and growing portion of emissions
- Certification programs establish “environmentally preferable” standards
- Green products in use with satisfactory cost and performance
- Potential for significant emission reductions – est. 18 tpd (statewide)